DECLARATION Utility Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled AFFINITY
BASED SELF-ASSEMBLY SYSTEMS AND DEVICES FOR PHOTONIC AND

BASED SELF-ASSEMBLY SYSTEMS AND DEVICES FOR PHOTONIC AND					
ELECTRONIC APPLICATIONS the specification of which					
(Check One)		is attached hereto OR was filed on as United States Application Serial No or PCT International Application No and was amended on (if applicable).			
•		eviewed and understand the contents of the above-identified specification, ded by any amendment(s) referred to above.			
		sclose information which is material to the patentability of this application in e of Federal Regulations, § 1.56.			

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign	Country	Date of Filing	Priority Claimed	
Application Number(s)			Yes	No

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Par nt Number	Parent Filing Dat	Status-Patented, Pending or Abandoned
08/760,933		December 6, 1996	Pending

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, § 1001 and that such willful false statements may jeopardize the

validity of the application or any patent issuing thereon.

	FULL NAME OF INVENTOR	FIRST Name Michael	MIDDLE Initial J.	LAST Name Heller	
201	RESIDENCE & CITIZENSHIP	City Encinitas	State or Foreign Country CA	Country of Citiz	•
	POST OFFICE ADDRESS	1614 Hawk View Drive	City Encinitas	State or Country CA	Zip Code 92024

INVENTOR'S SIGNATURE Mullael J. Helles

DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:)) Group Art Unit: 1631
Michael J. Heller et al) Examiner: Marschel, A.
Serial No.: 08/760,933) Allowed: October 17, 2002
Filed: December 6, 1996)) Issue Fee Due: January 17, 2003
For: METHODS FOR ELECTRONIC ASSEMBLY AND FABRICATION OF DEVICE)))

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST AND REVOCATION OF PRIOR POWERS

Commissioner for Patents Washington, D.C. 20231

Sir:

EG-80-NAL

I, William Franzblau, Vice President Legal Affairs, NANOGEN, INC. the parent corporation of NANOTRONICS, INC., as a duly authorized proxy of the Assignee of record of the entire interest of the above application, hereby revoke all powers of attorney previously given, and hereby appoints all of the registered practitioners at the law firm of O'MELVENY & MYERS LLP, 114 Pacifica, Suite 100, Irvine, California 92618-3315, as its attorneys with full power of substitution and revocation to transact all business in the United States Patent and Trademark Office and in countries

> CERTIFICATE OF MAILING (37 C.F.R. §1.8a)

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class Mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit IR1:1036557.1

Signature of Person Mailing Paper

Patent US 400 Attorney Docket: 612,404-182

(Former L&L Ref: 223/165)

other than the United States in connection with this application and corresponding foreign applications and patents, and to do all things necessary or appropriate therefore before any competent International Authorities in connection with any international patent application(s) corresponding to the above-identified application. The registered practitioners of O'MELVENY & MYERS LLP, 114 Pacifica, Suite 100, Irvine, CA 92618 are identified by Customer Number 34263:



O'MELVENY & MYERS LLP 114 Pacifica, Suite 100 Irvine, CA 92618 (949) 737-2900

Please send all correspondence to the attention of David B. Murphy, at the above address, and direct all telephone calls to David B. Murphy at (949) 737-2900.

Assignee of interest:

Nanotronics, Inc.

Address:

10398 Pacific Center Court, San Diego, California 92121

Recorded in PTO:

July 28, 1997, Reel: 8643, Framc 0113

In conformance with 37 C.F.R. §3.73(b), I hereby certify that all documents in connection with the chain of title have been reviewed, and to the best of my knowledge, all right, title and interest is in the above-identified Assignee.

Dated: 16/03

y: Signature

Title

Nanotronics, Inc. 10398 Pacific Center Court San Diego, California 92121

POWER OF ATTORNEY

January 6, 2003

I, Howard C. Bimdorf, Chairman of the Board and Chief Executive Officer of Nanotronics. Inc., a California corporation (the "Company"), hereby appoint William Franzblau, Esq., Vice President, Legal Affairs and Secretary of the Company's parent corporation, Nanogen, Inc., a Delaware corporation, as my attorney in fact for the limited purposes as authorized in this document. I hereby grant Mr. Franzblau full power and authority to take any and all required actions relating to the approval and execution of any documents relating to any patent applications, patents, trademarks, copyrights and any other forms of intellectual property of the Company that need to be filed, maintained and otherwise acted upon by the Company from time to time.

This power of attorney shall expire on December 31, 2004.

Howard C. Bimdorf



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SEPTEMBER 06, 1997

PTAS

LYON & LYON
DAVID B. MURPHY
633 WEST FIFTH STREET
LOS ANGELES, CA 90071



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/28/1997

REEL/FRAME: 8643/0113

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HELLER, MICHAEL J.

DOC DATE: 07/23/1997

ASSIGNOR:

CABLE, JEFFREY M.

DOC DATE: 07/23/1997

ASSIGNEE:

NANOTRONICS, INC. 10398 PACIFIC CENTER COURT SAN DIEGO, CALIFORNIA 92121

SERIAL NUMBER: 08760933

PATENT NUMBER:

FILING DATE: 12/20/1996

ISSUE DATE:

SHARMALLA SIMPSON, EXAMINER ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

SEP 1 5 1997

Express Mail No. EV337191037US

	08-18-1997		
FORM PTO-1595 7.28.77 R_CORDA (Rev. 6-93)		Dkt. No. 223/165 U.S. DEPARTMENT OF COMMERCE	
OMB No. 0651-0011 (exp. 4/94)	100512987	Patent and Trademark Office	
To the Honorable Commissioner of Patenty Asia Trademas Please	e record the attached original documents	s or copy thereof.	
Name of conveying party(ies):	2. Name and address of receive	ring party(ies):	
Michael J. Heller - 28	Name Nanotronics, Inc.		
Jeffrey M. Cable	Internal Address:		
Additional name(s) of conveying party(ies) attacked wes X No			
Nature of conveyance:	Street Address: 10398 Pacific	Street Address: 10398 Pacific Center Court	
X Assignment Merger Change of Name	City Car Diago State	C4 710 00404	
Other	City: San Diego State:		
Execution Date: July 23, 1997	Additional name(s) & address(es	Additional name(s) & address(es) attached?YesNo	
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application	on, the execution date of the application	is:July 23, 1997	
A. Patent Application No(s).	B. Patent No(s).		
08/760,933			
Additional numbers a	attached?YesX_No		
Name and address of party to whom correspondence concerning document should be mailed:	Total number of application involved:	is and patents	
Name: LYON & LYON	_		
Internal Address: Attn: David B. Murphy	7. Total fee (37 CFR 3.41):	7. Total fee (37 CFR 3.41):	
	X Included in the enclosed c	X Included in the enclosed check	
Street Address: 633 West Fifth Street	Authorized to be charged	Authorized to be charged to deposit account	
	8. Deposit Account Number:		
City: Los Angeles State: CA ZIP 90071	12-2475 (Attach duplicate copy of this p	12-2475 - (Attach duplicate copy of this page if paying by deposit account.)	
DO NOT USE THIS SPACE			
9. Statement and signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.			
David B. Murphy, Reg. No. 31.125 Name of Person Signing & Reg. No.	Signature July	/ 24, 1997 Date	

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

Total number of pages including cover sheet, attachments, and documents:

ASSIGNMENT

WHEREAS, We, MICHAEL J. HELLER, a citizen of the United States, residing at 1614 Hawk View Drive, Encinitas, California 92024, and JEFFREY M. CABLE, a citizen of the United States, residing at 40905 Via Los Altos, Temecula, California 92591 (hereinafter referred to as "ASSIGNORS"), have invented and own a certain invention entitled "AFFINITY BASED SELF-ASSEMBLY SYSTEMS AND DEVICES FOR PHOTONIC AND ELECTRONIC APPLICATIONS", for which application for Letters Patent of the United States of America has been filed on December 6, 1996, under Serial No. 08/760,933; and

WHEREAS, NANOTRONICS, INC., a corporation organized and existing under and by virtue of the laws of the State of California and having its principal place of business at 10398 Pacific Center Court, San Diego, California 92121 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the right, title and interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the right, title and interest to said invention and to all Letters Patent or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto, to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and ASSIGNORS hereby authorize and

request the Commissioner of Patents and Trademarks to issue said Letters Patent and any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon request of ASSIGNEE, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or legal proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its designated legal representative any and all papers, instruments, declarations or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

WITNESS my hand at Sat Desi, California, this 23day of July, 1997.

Michael J. Heller

WITNESS my hand at SAH DELL, California, this 25 day of JULY, 1997.

Jeffrey M. Cable